Galaxy NW-12

WUXGA, 12,000 lumens three-chip DLP, 3D stereo projector

Barco's Galaxy NW-12 is the world's first active 3D stereo projector with a full WUXGA (1920x1200) resolution. Its outstanding image quality, thanks to its three-chip DLP technology and a bright 12,000 lumens light output, is matched only by its ease of use and flexibility: in a familiar Windows desktop, you can display any mix of 2D and 3D stereo sources. The Galaxy NW-12 is the definitive choice for any collaborative single- or multi-projector display setup. It renders your display system more stable, more durable and above all, offers superior image quality.

BARCO

Visibly yours

Reducing your total cost of ownership

The price of a projection system is more than just its purchase: servicing, maintenance, peripherals and learning curves should also be taken into account, and often add up to a much higher cost. Barco's Galaxy NW-12 greatly reduces the total cost of ownership on many levels:

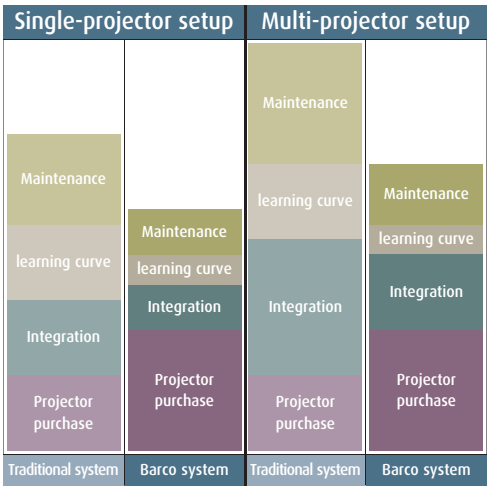
• **You save time,** because you don't need to learn how to work with a new interface and connect various sources over and over again. You simply use Windows and the XDS Control Center software.

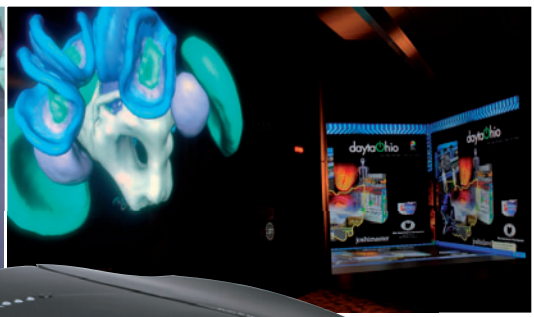
• **You save money,** because you don't need to buy remote controls or matrix switchers. Instead, you use keyboard and mouse, and display sources simultaneously on one screen, in fully reconfigurable windows.

• **Reduce maintenance costs.** Your projection system is practically maintenance-free due to its sealed optical engine, and its centralized control and maintenance functionalities eliminate many manual check-up routines.

• **Improved reliability.** Thanks to its liquid cooling and its top-of-the-line xenon lamp, the Galaxy NW-12 boasts a significantly longer system lifetime compared to other three-chip DLP systems.

Net TCO of a Barco system





Applications

- Geophysical data analysis
- Avionic and automotive design and review
- Scientific research and data management
- Virtual construction and engineering

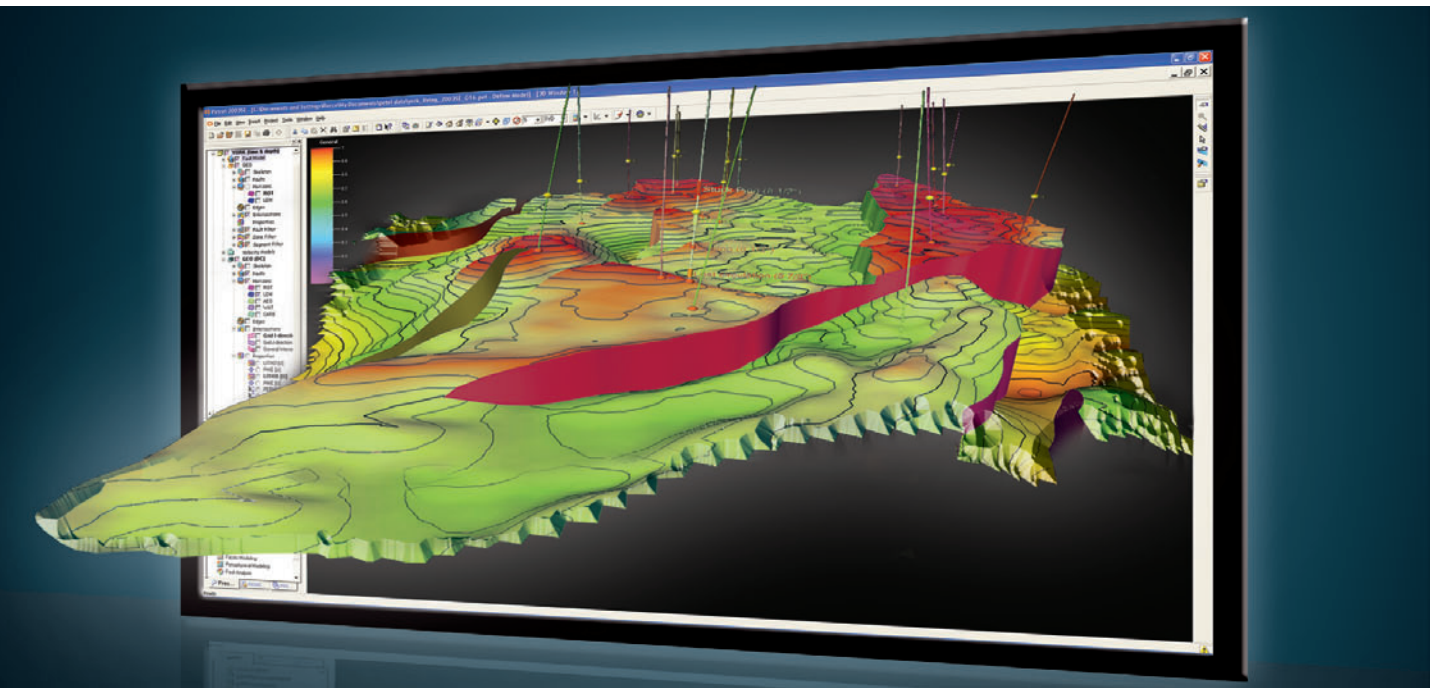
Pixel-perfect image quality

Thanks to its three-chip DLP technology, Barco's Galaxy NW-12 can claim deep, saturated color quality and a high degree of image realism. Its **WUXGA** resolution also gives you the chance to view all aspects of your information sources in great detail. In addition, WUXGA resolution is fully compatible with high-end laptops, or allows HD videoconferencing to run unobstructed by tickers, subtitles or your Windows task bar.

The Galaxy NW-12's wide horizontal and vertical lens shift options further render it a perfect choice for both front and rear projection. Its keystone and linearity corrections are vastly superior to those of regular three-chip DLP systems, and help resulting in an **exceptional image quality**.

Mastery of 3D stereo imaging

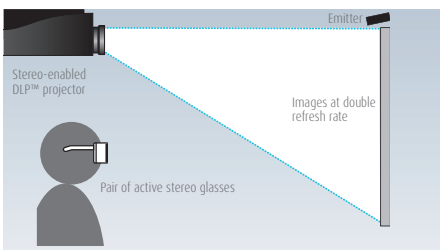
The Galaxy NW-12's three-chip DLP platform is our customers' preferred platform for stereoscopic projection. The exact 3D rendering that Barco's Galaxy NW-12 offers is vital to applications such as **automotive design** review, analysis of large **geophysical** data sets, **scientific research** and many others. The Galaxy NW-12 supports any current type of stereoscopic technology, depending on the customer's wishes:



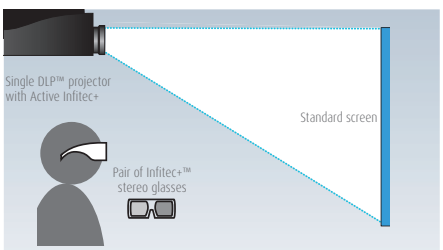
The NW-12 is a native **active stereoscopic** projector. Active stereo uses only one projector per stereo channel, and retains exceedingly high levels of color quality. By requiring only one projector per channel, a visualization system can attain much higher levels of cost-efficiency.

The NW-12 has integrated optional **active Infitec** filters. This Barco-patented stereo technology has uncompromised image quality, regardless of the type of screen you use. In addition, active Infitec makes use of considerably more affordable passive glasses.

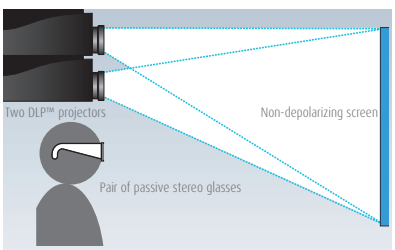
The NW-12 also supports passive **polarized** stereo, if your visualization center is to be used by large groups. Passive stereo setups, where two projectors generate one stereo image, also retain high levels of brightness, which is ideal for larger rooms.



ACTIVE 3D STEREO



ACTIVE INFITEC 3D STEREO



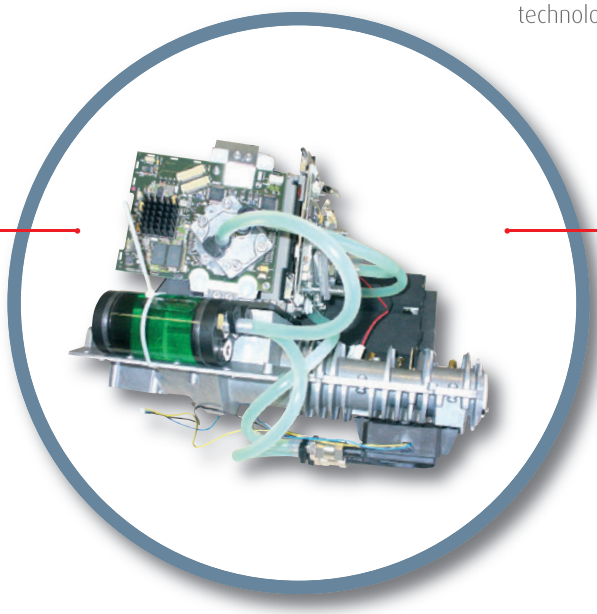
PASSIVE POLARIZED 3D STEREO

Designed for multi-projector systems

Barco's Galaxy NW-12 works just as smoothly in a single-projector setup as well as in a multi-projector system, in front as well as rear projection. Your systems will always have the **same look and feel**, thanks to Barco's XDS Control Center software, that lets you control several sources simultaneously in a familiar Windows user interface.

Combined with our own variety of **screen technologies** and **mechanical structures**, there is no type of system, whether flat or curved-screen, that the Galaxy NW-12 can't handle. To guarantee a pristine image at all times, Barco has equipped the Galaxy NW-12 with a number of innovative technologies:

- **Edge blending** technology creates one continuous image across the entire screen, without blurry overlap zones. Thanks to Barco's new **alpha and beta plane technology**, electronic blend zones will be close to invisible. In addition, Barco is the only company that has mastered perfect optical blending.
- **DynaColor** and **linked CLO** (constant light output) match color or brightness differences across channels to create one constant color and light output for the entire image. A unique advantage of Barco's **new and improved** DynaColor is that it uses alignment points for **both** primary and secondary colors, which puts it in pole position among comparable technologies.
- **Bi-cubical warping** (geometry correction) ensures that an image is projected correctly, with an extremely high level of accuracy (up to 33 by 33 control points), even across curved, non-flat surfaces, to guarantee a natural view free of distortions.



Revolutionary design

The aesthetically designed Galaxy NW-12 uses a chassis designed to attain some of the **lowest noise levels in its class**, averaging well under 49dB. The **liquid-cooled** optical engine's reliability is further increased by being **fully sealed**, which means no dust can enter and cause degradation in contrast and black levels. Your image quality also remains stable over time, thanks to the NW-12's rock solid lens holder. This grants the Galaxy NW-12 a system lifetime that is substantially longer than that of similar three-chip DLP systems, a platform already noted for its great reliability.

The bottom line

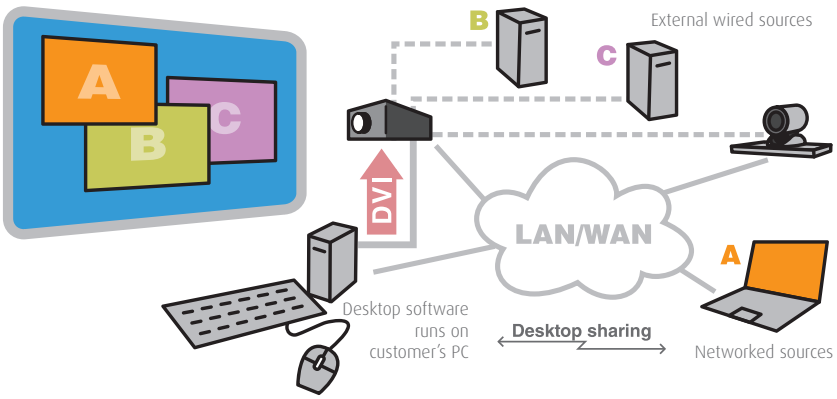
The Galaxy NW-12's unique combination of liquid cooling, mechanical stability and improved multi-channel features lead to a very stable, reliable multi-projector display system unrivaled in the industry.

Efficient collaboration, faster decision-making

Whether you are in the oil and gas sector, the automotive industry, virtual engineering of scientific research, Barco's Galaxy NW-12 will render your collaborative efforts faster and more efficient, leading to improved decision-making, thanks to theXDS Control Center software suite. Barco's XDS Control Center runs from your dedicated company computer that is connected to the projector, and requires **no additional display management systems in case you use a single- or a two-projector setup.**

Familiar Windows interface

On a large-screen Windows desktop, you can **simultaneously view and control** any mix of 2D and 3D stereo sources. With just mouse and keyboard, you can select a source, move it, resize its application window or make it overlap with another source. This includes sources directly connected to the Galaxy NW-12 as well as networked content and remote desktops.



Real-time distance collaboration

With the Galaxy NW-12, you can't just display any local or networked source, you can **directly take control** of it as well – all with the same mouse and keyboard. You can combine your sources with live video feeds or **HD videoconferencing**, so that you can strongly reduce travel costs, or work in a slow turn-based environment. Your content will not only be visible and shared between locations, it will also be encrypted and **safeguarded** against eavesdropping.

Centralized control and diagnostics

The Galaxy NW-12 presents a great asset for your tech support staff, as it allows easy, centralized control and diagnostics over the network, including **remote startup and shutdown**. The Galaxy NW-12 enables your staff to check the projector's runtime, its lamp lifetime and the status of connected sources. It also sends **automated e-mail alerts** to your AV/IT-personnel in case of lamp problems.

Galaxy NW-12 technical specifications

Display capabilities	**Light output**	
	12,000 lumens	
	Contrast	
	up to 2,000:1	
	Resolution	
	WUXGA (1,920x1,200)	
	Chip technology	
	Sealed and liquid cooled three-chip DLP	
Lamps	**Lamp**	
	2 kW Xenon	
	Lamp warranty	
	750 hrs waranted, max. 1,000 hrs	
Dimensions	**Weight**	
	70 kg (154.2 lbs) net - 85 kg (187.4 lbs) shipping weight	
	Height - width - length	
	345 / 590 / 913 mm	
	13.58" / 23.22" / 35.94"	
Lenses	**Available zoom lenses**	
	TLD+ (1.5-2.0:1)	R9862010
	TLD+ (2.0-2.8:1)	R9862020
	TLD+ (2.8-4.5:1)	R9862030
	TLD+ (4.5-7.5:1)	R9862040
	Available fixed focal lenses	
	TLD+ (0.73:1)	R9862000
	TLD+ (1.2:1)	R9840775
	Lens shift range	
	Horizontal shift up to +/- 55%	
	Vertical shift up to +/- 110%	
Features	**Special features**	
	Standerd active and polarized stereo, optional passive or active Infitec	
	Source and PiP operation through Windows OS	
	Standard full geometry correction	
	Sealed, liquid-cooled engine	
	Multi-channel features	

Inputs and outputs	**Standard inputs**	
	1x 5-BNC (RGBHV, RGBS or RGBsB)	
	1x Composite video (BNC)	
	1x S-Video (4-pin mini DIN)	
	1x dual-link DVI (HDCP compliant)	
	1x VGA (D15)	
	3 stereo sync inputs (mini-DIN)	
	Optional inputs (1 free layer)	
	SDI/HD-SDI input	
	Communication ports	
	RS232 (on D9)	
	10/100 Mb/s Ethernet (on RJ45)	
Compatibility	**Video**	
	PAL, SECAM, NTSC video signals in Composite, S-video, component or RGB format	
	All current HDTV standards (720i, 720p, 1080i, 1080p) in Component or RGB format	
	Data	
	All computer graphics formats up to QXGA @ 120 Hz	
	Analog sources with a pixel clock of up to 300 MHz	
	DVI sources with a pixel clock of up to 165 MHz	
Safety	**Safety standards**	
	ETL60950 and EN60950	
	CE compliant	
	CCC compliant	
Power	**AC power**	
	200 - 240 VAC/50-60 Hz	
	Max. power consumption / dissipation	
	2,800 Watt / 9,560 BTU	
Order info	Galaxy NW-12	R9040410
	New 2kW lamp	R9843080
	Refurbished lamp	R9843090
	QXGA RGBHV input	R9843020
	DVI/D15 input (HDCP)	R9843045
	SDI/HD-SDI	R9843040

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DLP™ technology by Texas Instruments offers crystal clear images with superior quality. DLP is a trademark of Texas Instruments.

The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

Barco nv
Avionics & Simulation Division
Noordlaan 5, 8520 Kuurne, Belgium
Tel. +32 56 36 86 00 - Fax + 32 56 36 84 86
email: contact.bps@barco.com

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